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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/092,004		03/05/2002	Joseph E. Semple	022329-000510US	7578
20350	7590	11/02/2005		EXAM	INER
		TOWNSEND AN	PUTTLITZ, KARL J		
TWO EMBA EIGHTH FL		RO CENTER		ART UNIT	PAPER NUMBER
SAN FRAN	CISCO, C	CA 94111-3834	1621		

DATE MAILED: 11/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/092,004	SEMPLE ET AL.					
•	Office Action Summary	Examiner	Art Unit					
		Karl J. Puttlitz	1621					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed on <u>06 C</u>	october 2005.						
		s action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)⊠	4)⊠ Claim(s) <u>1-31 and 33</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) 🗌	5) Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-31 and 33</u> is/are rejected.							
7)🛛	Claim(s) is/are objected to.							
8) 🗌	Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	under 35 U.S.C. § 119							
•	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
See the attached detailed Office action for a list of the certified copies not received.								
Attachmen		🗖						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4)						
3) 🔲 Infori	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	-	atent Application (PTO-152)					

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DETAILED ACTION

Claims 1-31 and 33 are pending. Those claims that have been previously withdrawn are now rejoined as representing a reasonable number of species.

The replacement drawing have been acknowledge subject to the Notice issued 10/13/2005.

The outstanding rejection under section 112, second paragraph is withdrawn in view of the amendments to claims 25 and 26.

The rejection under the judicially-created doctrine of obviouness-type double remains outstanding.

Double Patenting.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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Claims 1-31 and 33 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 3 and 4 of U.S. Patent No. 6,797,504 (conflicting patent) in view of Silverman, The Organic Chemistry of Drug Design and Drug Action, 1992, pages 19 and 20. Although the conflicting claims are not identical, they are not patentably distinct from each other.

The rejected claims cover compounds according to the following formula:

Claims 3 and 4 of the conflicting patent cover the following compounds, respectively:

3. The Compound of the formula:

4. The Compound of the farmula:

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The difference between the compounds covered in the rejected claims and the compounds covered in claims 3 and 4 of the conflicting patent is that the compounds of the conflicting patent do not recite an amine group bonded to goups X and R¹. It is for this proposition that the examiner joins Silverman. Specifically, Silver man teaches that a substitution of a methylene group for a secondary amine, such as that of the instant application vis-à-vis the compounds of the conflicting patent, represents a classical bioisostere substitution. These substitutions are within the motivation of those of ordinary skill for reasons such as to attenuate toxicity, and therefore, the substitution is prima facie obvious.

The examiner now enters the following new grounds of rejection:

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 30, 31 and 33 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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The rejected claims cover, inter alia, a method of treating a condition which is ameliorated by inhibiting or decreasing serine protease activity of matriptase or MTSP1 in a mammal in need of treatment which comprises administering to said mammal a therapeutically effective amount of a compound which inhibits serine protease activity of matriptase or MTSP1.

To satisfy the written-description requirement, the specification must describe every element of the claimed invention in sufficient detail so that one of ordinary skill in the art would recognize that the inventor possessed the claimed invention at the time of filing. *Vas-Cat*h, 935 F.3d at 1563; see also Lockwood v. American Airlines, Inc., 107 F.3d 1565, 1572 (Fed. Cir. 1997) (patent specification must describe an invention and do so in sufficient detail that one skilled in the art can clearly conclude that "the inventor invented the claimed invention"); *In re Gosteli*, 872 F.2d 1008, 1012 (Fed. Cir. 1989) ("the description must clearly allow persons of ordinary skill in the art to recognize that [the inventor] invented what is claimed").

Courts have stated that "[i]n claims involving [non-genetic] chemical materials, generic formulae *usually indicate with specificity what the generic claims encompass*. One skilled in the art can distinguish such a formula from others and *can identify many of the species* that the claims encompass. Accordingly, such a formula is normally an adequate description of the claimed genus." *Regents of the University of California v. Eli Lilly & Co.*, 119 F.3d 1559, 1568 (Fed. Cir. 1997), *cert. denied*, 523 U.S. 1089 (1998). (emphasis added). There is no such specificity here, nor could one skilled in the art identify any particular compound encompassed by the claims. To the contrary, the

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specification states that the claimed compounds are *derived* from the recited substituents.

With regard to a method of treating a condition which is ameliorated by inhibiting or decreasing serine protease activity of matriptase or MTSP1, the written description does no more than describe the desired function of a compound called for, that is, it does not clearly set forth the structure of the desired compounds.

Moreover, a compound which inhibits serine protease activity of matriptase or MTSP1. contains almost no information by which a person of ordinary skill in the art would understand that the inventors possessed the recited compounds. At best, it simply indicates that one should test an infinite number of compounds to see if the compounds inhibit or decrease the serine protease activity of matriptase or MTSP1. In this connection, the specification contains no structural or specific functional characteristics of those compounds which inhibits serine protease activity of matriptase or MTSP1, besides those compounds instantly disclosed.

Furthermore, the required treatment of an unspecified disease. Those skilled in the art would conclude that the skilled artisan was not in possession of the claimed method of use.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl J. Puttlitz whose telephone number is (571) 272-0645. The examiner can normally be reached on Monday to Friday from 9 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter, can be reached at telephone number (571) 272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl J. Puttlitz
Assistant Examiner

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